

Substitute for form 1449A/PTO				<b>Complete If Known</b>	
				Application Number	09/858,163
				Filing Date	May 15, 2001
				First Named Inventor	Michael EHRHART
				Art Unit	2876
				Examiner Name	Kimberly D. Nguyen
Sheet	1	of	8	Attorney Docket Number	283-325

U.S. PATENT DOCUMENTS					
Examiner	Cite No. <sup>1</sup>	Document Number Number Kind Code <sup>2</sup> (# known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
KN	A	3,801,775	04/02/1974	Acker	
	B	3,902,047	08/26/1975	Tyler et al.	
	C	4,020,463	04/26/1977	Himmel	
	D	4,286,255	08/25/1981	Sly	
	E	4,335,303	06/15/1982	Call	
	F	4,387,298	06/07/1983	Petersen et al.	
	G	4,499,372	02/12/1985	Nakano	
	H	4,530,584	07/23/1985	Schmidt	
	I	4,544,064	10/01/1985	Felder	
	J	4,562,592	12/31/1985	Chainer et al.	
	K	4,581,762	04/08/1986	Lapidus et al.	
	L	4,588,211	5/13/1986	Greene	
	M	4,656,591	04/07/1987	Goldberg	
	N	4,760,248	7/26/1988	Swartz, et al.	
	O	4,776,464	10/11/1988	Miller et al.	
	P	4,794,239	12/27/1988	Allais	
	Q	4,832,204	05/23/1989	Handy et al.	
	R	4,835,372	5/30/1989	Gombrich et al.	
	S	4,855,842	08/08/1989	Hayes et al.	
	T	4,858,000	08/15/1989	Lu	
	U	4,868,757	9/10/1989	Gil	
	V	4,873,426	10/10/1989	Sama et al.	
	W	4,877,948	10/31/1989	Krueger	
	X	4,877,949	10/31/1989	Danielson et al.	
	Y	4,924,078	05/08/1990	Sant' Anselmo et al.	
	Z	4,948,955	08/14/1990	Lee et al.	
	AA	4,972,494	11/20/1990	White et al.	
	AB	5,010,241	4/23/1991	Butterworth	
	AC	5,019,699	5/28/1991	Koenck	
	AD	5,038,391	08/06/1991	Yamaguchi	
	AE	5,039,847	08/13/1991	Moni et al.	
	AF	5,043,908	08/27/1991	Manduley et al.	
	AG	5,050,223	09/17/1991	Sumi	
KN	AH	5,054,102	10/01/1991	Gaborski	

Examiner Signature	Kimberly (Nguyen)	Date Considered	10/21/04
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Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet **2** of **8****Complete if Known**

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Filing Date	May 15, 2001
First Named Inventor	Michael EHRHART
Art Unit	2876
Examiner Name	Kimberly D. Nguyen
Attorney Docket Number	283-325

**U.S. PATENT DOCUMENTS**

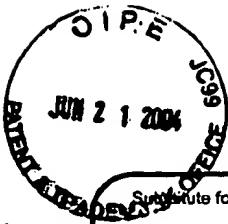
Examiner	Cite No. <sup>1</sup>	Document Number Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
KN	AI	5,102,110	04/07/1992	Reynolds	
	AJ	5,103,489	04/07/1992	Miette	
	AK	5,119,433	06/02/1992	Will	
	AL	5,120,940	06/09/1992	Wilsie	
	AM	5,134,669	07/26/1992	Keogh et al.	
	AN	5,138,140	08/11/1992	Slemiakowski et al.	
	AO	5,138,141	08/11/1992	Blanford et al.	
	AP	5,199,081	03/30/1993	Saito et al.	
	AQ	5,199,084	03/30/1993	Kishi et al.	
	AR	5,212,777	5/18/1993	Gove et al.	
	AS	5,237,625	08/17/1993	Yamashita et al.	
	AT	5,243,655	09/07/1993	Wang	
	AU	5,262,623	11/16/1993	Batterman et al.	
	AV	5,262,871	11/16/1993	Wilder et al.	
	AW	5,278,399	01/11/1994	Sano	
	AX	5,291,243	03/01/1994	Heckman et al.	
	AY	5,296,689	3/22/1994	Redderesen et al.	
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	BA	5,296,960	03/22/1994	Ellingson et al.	
	BB	5,299,118	03/29/1994	Owens et al.	
	BC	5,301,243	04/05/1994	Olschafskie et al.	
	BD	5,304,423	04/16/1994	Niknafs et al.	
	BE	5,304,786	04/16/1994	Pavlidis et al.	
	BF	5,307,423	04/26/1994	Gupta et al.	
	BG	5,313,051	05/17/1994	Brigida et al.	
	BH	5,317,388	05/31/1994	Surka et al.	
	BI	5,331,151	07/19/1994	Cochran et al.	/
	BJ	5,331,176	7/19/1994	Sant' Anselmo	
	BK	5,337,361	08/09/1994	Wang et al.	
	BL	5,354,977	10/11/1994	Roustaei	
	BM	5,375,228	12/20/1994	Sano et al.	
	BN	5,378,883	01/03/1995	Batterman et al.	
	BO	5,392,447	2/21/1995	Schlack et al.	
KN	BP	5,396,054	3/7/1995	Krichever et al.	

Examiner Signature	<i>Kimberly D. Nguyen</i>	Date Considered	<i>10/21/04</i>
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KN	BQ	5,399,846	03/21/1995	Pavlidis et al.	
	BR	5,410,141	04/25/1995	Koenck et al.	
	BS	5,413,383	05/09/1995	Laurash et al.	
	BT	5,414,251	05/09/1995	Durbin	
	BU	5,420,403	05/30/1995	Allum et al.	
	BV	5,420,943	05/30/1995	Mak	
	BW	5,421,778	06/06/1995	Kouramanis	
	BX	5,428,211	06/27/1995	Zheng et al.	
	BY	5,428,212	06/27/1995	Tani et al.	
	BZ	5,448,375	09/5/1995	Cooper et al.	
	CA	5,449,201	09/12/1995	Miller et al.	
	CB	5,487,411	11/14/1995	Tanaka et al.	
	CC	5,471,533	11/28/1995	Wang et al.	
	CD	5,480,158	02/06/1996	Wang et al.	
	CE	5,504,322	04/02/1996	Pavlidis et al.	
	CF	5,504,387	04/02/1996	Arackelian et al.	
	CG	5,508,697	04/09/1996	Li et al.	
	CH	5,508,818	04/16/1996	Hamma	
	CI	5,513,017	04/30/1996	Knott et al.	
	CJ	5,521,366	05/28/1996	Wang et al.	
	CK	5,550,364	08/27/1996	Rudeen	
	CL	5,550,366	08/27/1996	Roustaei	
	CM	5,557,091	09/17/1996	Krummel	
	CN	5,557,519	09/17/1996	Morita et al.	
	CO	5,570,135	10/29/1996	Gove et al.	
	CP	5,574,519	11/12/1996	Manico et al.	
	CQ	5,581,638	12/03/1996	Skinger	
	CR	5,591,955	01/07/1997	Laser	
	CS	5,591,956	01/07/1997	Longacre, Jr. et al.	
	CT	5,598,007	01/28/1997	Bunce et al.	
	CU	5,602,382	02/11/1997	Ulvr et al.	
	CV	5,607,187	03/04/1997	Salive et al.	
	CW	5,617,481	04/01/1997	Nakamura	
KN	CX	5,627,915	05/06/1997	Rosser et al.	

Examiner Signature	<i>Kimberly D. Nguyen</i>	Date Considered	<i>10/21/02</i>
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Sheet	4	of	8	Attorney Docket Number	283-325

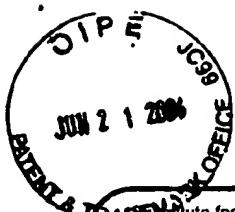
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Examiner	Cite No. <sup>1</sup>	Document Number Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
KN	CY	5,635,694	06/03/1997	Tuhro
	CZ	5,635,697	06/03/1997	Shellhammer et al.
	DA	5,642,442	06/24/1997	Morton et al.
	DB	5,644,408	07/01/1997	Li et al.
	DC	5,646,390	07/08/1997	Wang et al.
	DD	5,659,167	08/19/1997	Wang et al.
	DE	5,684,280	11/04/1997	Arackelian et al.
	DF	5,691,527	11/25/1997	Hara et al.
	DG	5,697,504	12/16/1997	Hiramatsu et al.
	DH	5,702,059	12/30/1997	Chu et al.
	DI	5,703,349	12/30/1997	Meyerson et al.
	DJ	5,710,419	01/20/1998	Wang et al.
	DK	5,723,868	03/03/1998	Hammond Jr. et al.
	DL	5,726,981	03/10/1998	Ylitarvo et al.
	DM	5,734,153	03/31/1998	Swartz et al.
	DN	5,756,981	5/26/1998	Roustael et al.
	DO	5,760,382	06/02/1998	Li et al.
	DP	5,761,686	06/02/1998	Bloomberg
	DQ	5,770,841	06/23/1998	Moed et al.
	DR	5,773,808	06/30/1998	Longacre Jr.
	DS	5,780,834	07/14/1998	Havens et al.
	DT	5,783,811	07/21/1998	Feng et al.
	DU	5,786,586	07/28/1998	Pidhirny et al.
	DV	5,796,090	08/18/1998	Pavlidis et al.
	DW	5,818,028	10/06/1998	Meyerson et al.
	DX	5,818,528	10/06/1998	Roth et al.
	DY	5,821,518	10/13/1998	Sussmeier et al.
	DZ	5,834,754	11/10/1998	Feng et al.
	EA	5,837,988	11/17/1998	Barile et al.
	EB	5,841,121	11/24/1998	Koenck
	EC	5,857,029	01/05/1999	Patel
	ED	5,867,595	02/02/1999	Cymbalski
	EE	5,880,453	03/09/1999	Wang et al.
KN	EF	5,886,338	03/23/1999	Arackelian et al.

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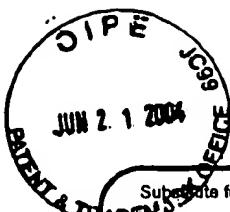
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KN	EG	5,892,824	04/06/1999	Beatson et al.	
	EH	5,917,925	06/29/1999	Moore	
	EI	5,917,945	06/29/1999	Cymbalski	
	EJ	5,920,056	07/06/1999	Bonnet	
	EK	5,929,418	07/27/1999	Ehrhart et al.	
	EL	5,949,052	09/07/1999	Longacre, Jr. et al.	
	EM	5,949,053	09/07/1999	Zlotnick	
	EN	5,949,057	09/07/1999	Feng	
	EO	5,974,202	10/26/1999	Wang et al.	
	EP	5,992,753	11/30/1999	Xu	
	EQ	6,000,612	12/14/1999	Xu	
	ER	6,002,491	12/14/1999	Li et al.	
	ES	6,011,873	01/04/2000	Desai et al.	
	ET	6,010,286	02/01/2000	Li et al.	
	EU	6,055,552	04/25/2000	Curry	
	EV	6,060,722	05/09/2000	Havens et al.	
	EW	6,062,475	05/16/2000	Feng	
	EX	6,076,731	06/20/2000	Terrell	
	EY	6,076,738	06/20/2000	Bloomberg et al.	
	EZ	6,094,509	07/25/2000	Zheng et al.	
	FA	6,095,418	08/01/2000	Swartz et al.	
	FB	6,098,887	08/08/2000	Figarella et al.	
	FC	6,101,487	08/08/2000	Yeung	
	FD	6,105,871	08/22/2000	Campos et al.	
	FE	6,115,513	09/05/2000	Miyazaki et al.	
	FF	6,122,410	09/19/2000	Zheng et al.	
	FG	6,129,278	10/10/2000	Wang et al.	
	FH	6,149,063	11/21/2000	Reynolds et al.	
	FI	6,195,122	02/27/2001	Vincent	
	FJ	6,212,504	04/03/2001	Hayosh	
	FK	6,220,509 B1	04/24/2001	Byford	
	FL	6,223,988	05/01/2001	Batteman et al.	
	FM	6,285,916	09/04/2001	Kadaba et al.	
KN	FN	6,290,132	09/18/2001	Dickson et al.	

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Attorney Docket Number 263-325

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 6 of 8

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KN	FO	6,321,992 B1	11/27/2001	Knowles et al.	
	FP	6,330,975	12/18/2001	Bunte et al.	
	FQ	2001/0055422 A1	12/27/2001	Roustaei	
	FR	6,340,114	01/22/2002	Correa et al.	
	FS	6,347,163	2/12/2002	Roustaei	
	FT	2002/0039099 A1	04/04/2002	Harper	
	FU	6,398,112	06/04/2002	Li et al.	
	FV	6,494,375 B1	12/17/2002	Ishibashi et al.	
	FW	6,512,218	01/28/2003	Lanini et al.	
	FX	2003/0046192 A1	03/06/2003	Eguchi et al.	
	FY	6,539,360 B1	03/25/2003	Kadaba	
	FZ	6,641,046 B2	11/04/2003	Durbin	
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**FOREIGN PATENT DOCUMENTS**

Examiner Initials <sup>4</sup>	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			
KN	HA	EP	0392159A2		10/17/1990	Muroya Masami	<input type="checkbox"/>
	HB	EP	0350933	A2	01/17/1990	Matsushita Electric Industrial Co., Ltd.	
	HC	EP	0439682	A2	08/07/1991	Symbol Technologies, Inc.	
	HD	EP	0733991	A2	09/25/1996	Symbol Technologies, Inc.	
	HE	EP	0999514A1		05/10/2000	Datalogic S.P.A.	
	HF	EP	0910032	A2	04/21/1999	Welch Allyn, Inc.	
	HG	JP	63-311474 (w/Abstract)		12/20/1988	Iguma Haruhiko	<input type="checkbox"/>
	HH	JP	1-216486 (w/Abstract)		08/30/1989	Miyake Noriyuki	<input type="checkbox"/>
	HI	JP	03-020058 (w/Abstract)		01/29/1991	Okino Mashahide	<input type="checkbox"/>
	HJ	JP	4257844 (w/Abstract)		09/14/1992	Kimura Yoichi	<input type="checkbox"/>
KN	HK	JP	6-250775 (w/Abstract)		09/09/1994		

Examiner Signature

*Kimberly D. Nguyen*

Date Considered

10/21/04

<sup>1</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>2</sup> Applicant's unique citation designation number (optional). <sup>3</sup> See Kind Codes of U.S. Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>4</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>5</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>6</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>7</sup> Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet **7** of **8****Complete If Known**

Application Number	09/858,163
Filing Date	May 15, 2001
First Named Inventor	Michael EHRHART
Art Unit	2876
Examiner Name	Kimberly D. Nguyen
Attorney Docket Number	283-325

**FOREIGN PATENT DOCUMENTS**

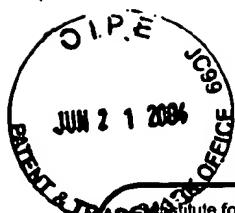
Examiner Initials <sup>2</sup>	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
KN	HL	WO	92/02371		02/20/1992	Sean O'Brien		<input type="checkbox"/>
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	HT	WO	00/72246		11/30/2000	Silver-Brook Research Pty Ltd.		
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KN	HV	WO	02/080520		10/10/2002	Siemens Dematic Postal Automation, L.P.		

Examiner Signature	Kimberly D. Nguyen	Date Considered	10/21/04
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Sheet 8 of 8

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>		<b>Complete if Known</b>	
Sheet	8	of	8
		Application Number	09/858,163
		Filing Date	May 15, 2001
		First Named Inventor	Michael EHRHART
		Art Unit	2876
		Examiner Name	Kimberly D. Nguyen
		Attorney Docket Number	283-325

## NON-PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
KN	IA	GONZALEZ; WOODS, "Digital Image Processing," Library of Congress, 10 pg. article, pages 417- 425 and pages 452-457; Copyright 1992 by Addison Wesley Publishing Company, Inc.	
KN	IB	International Search Report for International Patent Application No. PCT/US02/15095 dated February 12, 2002.	

Examiner Signature	Kimberly Nagy	Date Considered	10/21/04
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the patent document. Kind of document by the appropriate symbol as indicated on the document under WIPO Standard ST.18 if possible.

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